Amendments to the Claims:

1. (Currently Amended) A process for the preparation of water-absorbent, foamtype polymer structures, wherein an aqueous composition (A) eontaining comprising

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- (A1) water,
- (A2) one or more polymers based at least on
- (α1) from about 55 to about 100 wt.% of a polymerized, monoethylenically unsaturated, acid-group-containing monomer or its salt thereof,
- (α 2) from 0 to about 45 wt.% of a polymerized, monoethylenically unsaturated monomer that is copolymerizable with (α 1),

wherein the sum of the amounts by weight of $(\alpha 1)$ and $(\alpha 2)$ is 100 wt.% and wherein at least about 31.5 wt.% of the monomers, based on the total weight of the monomers $(\alpha 1)$ and $(\alpha 2)$, are acrylic acid or salts of acrylic acid,

- (A3) one or more crosslinkers,
- (A4) one or more blowing agents,
- (A5) one or more surfactants,
- (A6) and optionally further auxiliary substances,

is foamed, and the foamed aqueous composition is then heated at a temperature in a range of from about 50 to about 300°C, so that the polymer (A2) crosslinks at least partially and the content of water (A1) is adjusted to not more than about 15 wt.%, based on the total weight of the foam-type polymer structure that forms.

2. (Currently Amended) The process according to claim 1, wherein the <u>foamed</u> aqueous composition polymer [[(A2)]] has a number-average molecular weight of at least about 10,000 g/mol.

3. (Currently Amended) The process according to claim 1, wherein the foamed composition has a foam <u>litre liter</u> weight of from about 10 to about 1000 g/l.

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- 4. (Previously Presented) The process according to claim 1, wherein the surface of the absorbent, foam-type polymer structure is smoothed in a further process step.
- 5. (Previously Presented) A water-absorbent, foam-type polymer structure obtainable by a process according to claim 1.
- 6. (Previously Presented) A water-absorbent, foam-type polymer structure according to claim 5, wherein the polymer structure has at least one of the following properties:
- (β 1) an AUL (absorbency under load) of 0.9% NaCl solution under a load of 0.3 psi of at least about 10 g/g;
 - (β2) a rate of absorption of more than about 1 g/g/sec;
 - (β3) a maximum absorption capacity in a range of from about 20 to about 300 g/g;
- $(\beta 4)$ a CRC (centrifugation retention capacity) in a range of from about 7.5 to about 100 g/g;
 - $(\beta 5)$ a mean pore size in a range of from about 0.01 to about 2 mm;
 - (β6) a mean pore density in a range of from about 60 to about 1200 g/m².

- 7. (Previously Presented) A water-absorbent, foam-type polymer structure containing
- (B1) from about 20 to about 99.99 wt.%, based on the total weight of the polymer structure, of one or more crosslinked polymers based at least on
- (γ1) from about 50 to about 99.9 wt.% of a polymerized monoethylenically unsaturated, acid-group-containing monomer or its salt,

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- $(\gamma 2)$ from 0 to about 45 wt.% of a polymerized monoethylenically unsaturated monomer that is copolymerizable with $(\gamma 1)$, and
 - (γ 3) from about 0.001 to about 5 wt.% of one or more crosslinkers,

wherein the sum of the amounts by weight of $(\gamma 1)$ to $(\gamma 3)$ is 100 wt.% and at least about 31.5 wt.% of the monomers, based on the total weight of the monomers $(\gamma 1)$ and $(\gamma 2)$, are acrylic acid or a salt thereof,

- (B2) from about 0.01 to about 30 wt.% of one or more additives, based on the total weight of the polymer structure, and
- (B3) from 0 to about 15 wt.% of water, based on the total weight of the polymer structure,

wherein the sum of the amounts by weight of (B1) to (B3) is 100 wt.% and wherein the water-absorbent, foam-type polymer structure has the following properties (β 1) and (β 2):

- (β1) an AUL (Absorbency under Load) of 0.9% NaCl solution at a load of 0.3 psi of at least about 10 g/g;
 - (β2) an absorption speed of more than about 2 g/g/sec.

8. (Previously Presented) A composite comprising a water-absorbent, foam-type polymer structure according to claim 5 and a substrate.

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- 9. (Currently amended) A process for the production of a composite according to claim 8, wherein the water-absorbent, foam-type polymer structure is brought into contact with at least a portion of the surface of a substrate and the substrate brought into contact with the water-absorbent, foam-type polymer structure foamed aqueous composition is then heated at a temperature in a range of from about 50 to about 300°C so that the polymer (A2) crosslinks at least partially, the content of water (A1) is adjusted to not more than about 15 wt.%, based on the total weight of the foam-type polymer structure that forms, and the resulting foam-type polymer structure is immobilized on at least a portion of the surface of the substrate.
- 10. (Previously Presented) A process according to claim 9, wherein the substrate is selected from the group consisting of polymeric film, metal, nonwoven, fluff, tissue, woven fabric, natural fiber, synthetic fiber and foam.
- 11. (Currently amended) A process according to claim 9, wherein templates are used during application of the water absorbent, foam-type polymer structure foamed aqueous composition to the substrate.
- 12. (Currently amended) A process for the production of a composite according to claim 8, wherein at least a portion of the surface of [[a]] the water-absorbent, foam-type polymer structure is brought into contact with at least a portion of the surface of a substrate, and the polymer structure is then immobilized on at least a portion of the surface of the substrate.

13. (Previously Presented) A process according to claim 12, wherein the substrate is a thermoplastic sheet-form structure.

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- 14. (Currently Amended) A composite obtainable by a process according to claim [[1]] 9.
 - 15. (Cancelled)
- 16. (Previously Presented) A chemical product comprising a water-absorbent, foamtype polymer structure according to claim 5.
 - 17. (Previously Presented) A chemical product comprising a composite of claim 8.
 - 18. (New) A composite obtainable by a process according to claim 12.
- 19. (New) The process according to claim 1, wherein the one or more blowing agents is selected from inorganic salts or organic compounds that are capable of decarboxylation.